

997 Functional Acknowledgment

Functional Group ID=**FA**

Introduction:

This standard provides the format and establishes the data contents of a functional acknowledgment transaction set. The purpose of this standard is to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		n1
Must Use	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1		c1
	050	AK4	Data Element Note	O	99		
Must Use	060	AK5	Transaction Set Response Trailer	M	1		
Must Use	070	AK9	Functional Group Response Trailer	M	1		
Must Use	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.
The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, on acknowledgment functional group responds to only those functional groups from on application receiver's code to one application sender's code.
There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
2. AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
3. AK2 is used to start the acknowledgement of a transaction set within the received functional group.
The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes:
Comments: 1 The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		997 X12.20 Functional Acknowledgment	
Must Use	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number assigned by the originator for a transaction set.	

Segment: **AK1** Functional Group Response Header
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To start acknowledgment of a functional group
Syntax Notes:
Semantic Notes:
Comments: 1 AK102 is the data interchange control number found in the GS segment in the functional group being acknowledged.

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK101	479	Functional Identifier Code	M ID 2/2
			Code identifying a group of application related transaction sets	
Must Use	AK102	28	Group Control Number	M N0 1/9
			Assigned number originated and maintained by the sender	

Segment: **AK2** Transaction Set Response Header
Position: 030
Loop: AK2 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set
Syntax Notes:
Semantic Notes:
Comments: 1 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	AK201	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			Refer to 003010 Data Element Dictionary for acceptable code values.	
Must Use	AK202	329	Transaction Set Control Number	M AN 4/9
			Identifying control number assigned by the originator for a transaction set.	

Segment: **AK3** Data Segment Note
Position: 040
Loop: AK3 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To report errors in a data segment and identify the location of the data segment
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK301	721	Segment ID Code Code defining the segment ID of the data segment in error (See Appendix A - Number 77)	M ID 2/3
Must Use	AK302	719	Segment Position in Transaction Set The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	M N0 1/6
	AK303	447	Loop Identifier Code Code identifying a loop within the transaction set which is bounded by the related LS and LE segments (corresponding LS and LE segments must have the same value for loop identifier). (Note: The loop ID number given on the transaction set diagram is recommended as the value for this data element in segments LS and LE.)	O ID 1/4
	AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3
	AK305	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3
	AK306	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3
	AK307	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3
	AK308	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3

Segment: **AK4** Data Element Note
Position: 050
Loop: AK3 Optional
Level: Heading
Usage: Optional
Max Use: 99
Purpose: To report errors in a data element and identify the location of the data element
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary				
	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	AK401	722	Element Position in Segment	M N0 1/2
			This is used to indicate the relative position of the data element in error in this data segment. The count starts with 1 for the data element immediately following the segment ID. This value is 0 for an error in the segment ID.	
	AK402	725	Data Element Reference Number	O N0 1/4
			Reference number used to locate the Data Element Dictionary.	
Must Use	AK403	723	Data Element Syntax Error Code	M ID 1/3
			Code indicating the error found after syntax edits of a data element Refer to 003010 Data Element Dictionary for acceptable code values.	
	AK404	724	Copy of Bad Data Element	O AN 1/99
			This is a copy of the data element in error	

Segment: **AK5** Transaction Set Response Trailer
Position: 060
Loop: AK2 Optional
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report errors in a transaction set
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK501	717	Transaction Set Acknowledgment Code	M ID 1/1
			Code indicating accept or reject condition based on the syntax editing of the transaction set Refer to 003010 Data Element Dictionary for acceptable code values.	
	AK502	718	Transaction Set Syntax Error Code	O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set Refer to 003010 Data Element Dictionary for acceptable code values.	
Not Used	AK503	718	Transaction Set Syntax Error Code	O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set Refer to 003010 Data Element Dictionary for acceptable code values.	
Not Used	AK504	718	Transaction Set Syntax Error Code	O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set Refer to 003010 Data Element Dictionary for acceptable code values.	
Not Used	AK505	718	Transaction Set Syntax Error Code	O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set Refer to 003010 Data Element Dictionary for acceptable code values.	
Not Used	AK506	718	Transaction Set Syntax Error Code	O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set Refer to 003010 Data Element Dictionary for acceptable code values.	

Segment: **AK9** Functional Group Response Trailer
Position: 070
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group
Syntax Notes:
Semantic Notes:
Comments: 1 If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK901	715	Functional Group Acknowledge Code Code indicating accept or reject condition based on the syntax editing of the functional group Refer to 003010 Data Element Dictionary for acceptable code values.	M ID 1/1
Must Use	AK902	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M N0 1/6
Must Use	AK903	123	Number of Received Transaction Sets Number of Transaction Sets received	M N0 1/6
Must Use	AK904	2	Number of Accepted Transaction Sets Number of accepted Transaction Sets in a Functional Group	M N0 1/6
	AK905	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3
Not Used	AK906	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3
Not Used	AK907	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 003010 Data Element Dictionary for acceptable code values.	O ID 1/3
Not Used	AK908	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional	O ID 1/3

group header and/or trailer

Refer to 003010 Data Element Dictionary for acceptable code values.

Not Used	AK909	716	Functional Group Syntax Error Code	O	ID 1/3
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Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 003010 Data Element Dictionary for acceptable code values.

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/6
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number assigned by the originator for a transaction set.	